

TITLE: A SYSTEM AND METHOD FOR ANALYZING,
OPTIMIZING AND/OR DESIGNING SPECTRAL
SENSITIVITY CURVES FOR AN IMAGING DEVICE

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A SYSTEM AND METHOD FOR ANALYZING, OPTIMIZING AND/OR DESIGNING SPECTRAL SENSITIVITY CURVES FOR AN IMAGING DEVICE

This application claims the benefit of U.S. Provisional Patent Application
5 Serial No. 60/191,800 filed on March 24, 2000 which is herein incorporated by
reference.

FIELD OF THE INVENTION

The invention relates generally to imaging and, more particularly, to a
method and system for evaluating, optimizing and/or designing one or more
10 spectral sensitivity curves for an imaging device.

BACKGROUND OF THE INVENTION

The practice of capturing color images with digital imaging devices or
systems, such as a digital camera or color scanner, is widely spreading. Currently,
15 these digital devices comprise a charge-coupled device or complementary metal-
oxide-semiconductor (CCD/CMOS) sensor array with a set of filters before it.
Ideally, these digital imaging devices capture color images in a substantially
accurate and aesthetically pleasing manner.

20 There are many criteria which are utilized in the design and production of
color imaging devices. An important consideration is the ability of the device to
deliver color signals which can be used to create high quality color reproductions.
To quantify the color quality capability of such devices, it is important to
determine how the device's response to color stimuli corresponds to that of a
25 human. Through psychophysical experiments, the Commission Internationale de
l'Eclairage (CIE) has generated a standard set of color matching functions for the
standard observer, representing the average human visual response to color. As
the human eye has three types of cones, each with a different spectral sensitivity
signature, there are three standard function specified by the CIE. Accordingly,
30 most color imaging devices are set up with three channels and the spectral

sensitivities in these imaging devices are initially designed to attempt to mimic the human visual system.

The spectral sensitivity functions for color imaging device channels should
5 satisfy the Luther condition, that is the channel spectral sensitivities need not be exact duplicates of the CIE color-matching functions described above, but need to be a nonsingular transformation of them. In practice, it is not always possible to manufacture filters for imaging devices that satisfy the Luther condition, often due to the physical limitations of fabricating process. Measurement noise also plays
10 an important role and will degrade the color accuracy even when spectral sensitivity curves fulfill the Luther condition.

Accordingly, a measure of goodness or quality factor for evaluating,
optimizing, and/or designing spectral sensitivity curves for color imaging devices
15 is desirable. Unfortunately, developing methods and/or systems for obtaining a measure of goodness or a quality factor has been challenging.

One quality factor, known as the *Q*-factor, for evaluating and designing spectral sensitivity functions is disclosed in H. E. J. Neugebauer, "Quality factor for filters whose spectral transmittances are different from color mixture curves, and its application to color photography," J. Opt. Soc. Am. Vol. 46, No.10, pg. 821-824 (1956), which is herein incorporated by reference. A major disadvantage of the *Q*-factor is that it is designed to evaluate only single spectral sensitivities. Thus, it is easily possible to design an imaging device where all channels associate
20 with high *Q*-factors, and still the system delivers color signals which cannot be used in creating high quality color reproductions. The trivial example of such a system is a three-channel device where all three channels are made with small deviations from the same spectral sensitivity signature. Although all three show
25 high *Q*-factor, the result is a nearly monochrome image.

Another quality factor, known as the μ -factor, for evaluating and designing spectral sensitivity functions is disclosed in P. L. Vora and H. J. Trussell, "Measure of goodness of a set of color-scanning filters", J. Opt. Soc. Am. A, Vol.10, No.7, pg. 1499-1503 (1993), which is herein incorporated by reference.

- 5 The μ -factor is a quality factor which evaluates an arbitrary number of device channel sensitivity functions as an ensemble. More specifically, the μ -factor describes the difference between the orthonormal subspaces of the CIE color matching functions and the spectral sensitivity space. Generally, a μ -factor approximately equal to one is an indication of an imaging device expected to
- 10 deliver high quality color reproduction. Unfortunately, some color imaging devices with a poor μ -factor can still generate a good image reproduction. Vora and Trussell have thus introduced a metric which does not have a straight forward correlation with expected image quality. Another problem with the μ -factor is that it does not penalize systems that by virtue of channel sensitivity choices tend to amplify system noise. Such noise is unavoidable in real systems and a system designer needs to carefully control it so as to avoid swamping the eventual color reproduction.
- 15

- CIELAB color space is a non-linear transformation of the CIE color
- 20 matching functions used as an approximation to a perceptually uniform color space. A figure of merit for color scanners, based on locally-linearized CIELAB space, having an incorporated model for measurement of noise is present in G. Sharma et al. "Figure of merit for color scanners," IEEE Trans. Image Processing, Vol. 6, No. 7, pg. 990-1001 (1997) which is herein incorporated by
- 25 reference. The new figure has a high degree of perceptual relevance and also accounts for noise performance of sets of channel sensitivities. The noise aspect of Sharma's metric is, however completely independent of the input stimulus and thus is limited in its usefulness.

SUMMARY OF THE INVENTION

- 30 A method for determining a color rendering capability of at least one color imaging device with multiple color channels in accordance with one embodiment

of the present invention includes a few steps. Spectral sensitivity curves for two or more of the multiple color channels in the color imaging device are obtained. An image quality value for the color imaging device is determined from the spectral sensitivity curves for the two or more of the multiple color channels in the
5 color imaging device. The color rendering capability of the color imaging device can be evaluated based on the determined image quality value.

A method for designing a spectral sensitivity curve for one or more color channels of a color imaging device in accordance with another embodiment of the
10 present invention includes selecting an image quality value and then determining a spectral sensitivity curve for at least one of the color channels of the color imaging device so that the spectral sensitivity curves for each of the color channels in the color imaging device results in the image quality value.

15 A method for determining the tolerances for one or more color channels in a color imaging device in accordance with another embodiment of the present invention includes a few steps. A spectral sensitivity curve for at least one of the multiple color channels in the color imaging device and an image quality value are obtained. Next, a first pair of upper and lower peak wavelength tolerances from
20 the obtained spectral sensitivity for the at least one of the multiple color channels and the obtained image quality value. Additionally, a second pair of upper and lower tolerances on the width from the obtained spectral sensitivity curve for at least one of the multiple color channels and the obtained image quality value are determined.

25 An imaging device analyzing system in accordance with another embodiment of the present invention includes a source for spectral sensitivity curves for two or more of the multiple color channels in a color imaging device, an image quality processing system, and an evaluation system. The image quality
30 processing system determines an image quality value for the color imaging device from the spectral sensitivity curves for the two or more of the multiple color channels in the color imaging device.

An imaging device designing system in accordance with another embodiment of the present invention includes a selection system and a design processing system. The selection system obtains an image quality value. The design processing system determines a spectral sensitivity curve for at least one of the color channels of the color imaging device so that the spectral sensitivity curves for each of the color channels in the color imaging device results in the image quality value.

A system for determining the tolerances for one or more color channels in a color imaging device in accordance with another embodiment of the present invention includes a source and a design processing system. The source provides a spectral sensitivity curve for at least one of the multiple color channels in the color imaging device. The design processing system determines a first pair of upper and lower tolerances for the obtained spectral sensitivity for the at least one of the multiple color channels and determines a second pair of upper and lower tolerances on the full width half maximum for the obtained spectral sensitivity curve for at least one of the multiple color channels.

With the present invention, an objective evaluation of the quality of color images captured by the evaluated imaging device is now provided using an analysis of the spectral sensitivity curves of channels in the imaging device. The resulting evaluation also provides information on how much room for improvement there is for the evaluated imaging device. The image quality of different imaging devices can now be compared.

Additionally, with the present invention spectral sensitivity curves for an imaging device can be designed or optimized. As a result, an imaging device with a desired level of image quality can be produced. Additionally, with the present invention determinations of image quality versus the cost of obtaining that level of image quality can be made.

Further, with the present invention tolerances for spectral sensitivity curves for an imaging device can be determined. These determined tolerances

provide an evaluation of the tolerance range of the imaging device. Additionally, these determined tolerances can be used to select other sets of spectral sensitivity curves that might also be used with the same resulting image quality.

5

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a block diagram of a system for evaluating, optimizing and/or designing one or more spectral sensitivity curves for an imaging device in accordance with one embodiment of the present invention;

FIG. 2 is a block diagram of a color channel in an imaging device;

10 FIG. 3A is a flow chart of a method for determining a color rendering capability of at least one color imaging device with multiple color channels in accordance with one embodiment of the present invention;

FIG. 3B is a flow chart of a method for determining a color rendering capability of at least one color imaging device with multiple color channels in
15 accordance with another embodiment of the present invention;

FIG. 4A is a flow chart of a method for designing a spectral sensitivity curve for one or more color channels of a color imaging device in accordance with another embodiment of the present invention;

20 FIG. 4B is a flow chart of a method for designing a spectral sensitivity curve for one or more color channels of a color imaging device in accordance with yet another embodiment of the present invention; and

FIG. 5 is a flow chart of a method for determining the tolerances for one or more color channels in a color imaging device in accordance with another embodiment of the present invention.

25

DETAILED DESCRIPTION

A system 10 and method for evaluating, optimizing and/or designing one or more spectral sensitivity curves for an imaging device in accordance with one embodiment of the present invention is illustrated in FIGS. 1, 3A, 3B, 4A, 4B, and
30 5. The method in accordance with one embodiment includes determining an

image quality value for the color imaging device from spectral sensitivity curves for two or more of the multiple color channels in the color imaging device and then evaluating the color rendering capability of the color imaging device based on the determined image quality value. Among other features, the present

5 invention can provide an objective evaluation of an imaging device, one or more spectral sensitivity curve or curves for an optimized set of spectral sensitivity curves for the imaging device, and tolerances for one or more spectral sensitivity curves for an imaging device.

10 Referring to FIG. 1, in this particular embodiment the system 10 includes a spectral sensitivity ("SS") processing system 12 and an optional CCD camera 14, although system 10 may have other components, other numbers of the components, and other combinations of the components. The SS processing system 12 is operatively coupled to the camera 14. A variety of communication

15 systems and/or methods can be used to operatively couple and communicate between the SS processing system 12 and the camera 14, including a direct connection, a local area network, a wide area network, the world wide web, modems and phone lines, or wireless communication technology each having communications protocols. Although one configuration for the system 10 is

20 shown, other configurations are possible and envisioned.

SS processing system 12 includes at least one processor 16, at least one memory 18, at least one input/output interface 20, and a user input device 23 which are coupled together by a bus system 22 or other link, although the SS

25 processing system 12 may comprise other components, other numbers of the components, and other combinations of the components. The processor 16 executes a program of stored instructions for at least a portion of the method for evaluating, optimizing and/or designing one or more spectral sensitivity curves for an imaging device in accordance with one embodiment of the present invention as

30 described herein and set forth in FIGS. 3-5. A variety of different types of memory storage devices, such as a random access memory (RAM) or a read only memory (ROM) in the system or a floppy disk, hard disk, CD ROM, or other computer readable medium which is read from and/or written to by a magnetic,

optical, or other reading and/or writing system that is coupled to the processor 16, can be used to store the programmed instructions described herein as well as other information. Although in his particular embodiment, the method in accordance with one embodiment of the invention is stored as programmed instructions in the

5 SS processing system 12 for execution by the processor 16, some or all of the programmed instructions could be stored and executed elsewhere. The input/output interface 20 is used to operatively couple and communicate between the SS processing system 12 and the camera 14. The user input device 23 enables an operator to generate and transmit signals or commands to the processor 16,

10 such as an image quality value, a set of tolerances for spectral sensitivity curves, or one or more selected spectral sensitivity curves for analysis. A variety of different types of user input devices can be used, such as a keyboard or computer mouse.

15 Referring to FIG. 2, a block diagram of a color channel in an imaging device, such as camera 14, is illustrated. In this particular embodiment, the color channel in the imaging device includes a filter 24, a detector 26, and an analog-to-digital converter 28, although the color channel in the imaging device can comprise other components and other combinations of components. Each

20 component of an imaging device color channel has a certain response to its expected input. The color filter 24 has a spectral transmission wherein photons at different wavelengths from scene radiation $h\nu$ have different probabilities of being passed through to the detector 26. Such transmission properties can be precisely determined. Likewise, the detector 26 has a spectral sensitivity wherein for any

25 photon from scene radiation $h\nu'$ which passes through filter 24 is incident upon the detector 26. Based upon its wavelength, there is a precisely determinable probability that that photon will cause a change in voltage response in the detector 26. The measured voltage in detector 26 is passed to analog-to-digital converter 28 which converts the analog voltage to a digital value. The spectral sensitivity of

30 the imaging device 14 color channel is derived from the series combination of the filter transmission and the detector spectral sensitivity.

Referring to FIG. 3A, a flow chart for analyzing a color rendering capability of at least one color imaging device with multiple color channels in accordance with one embodiment of the present invention is illustrated. In step 50, this method starts.

5

Next, in step 52 spectral sensitivity curves or functions for two or more of the multiple color channels in the color imaging device are obtained. Spectral sensitivity of a color imaging device or system is defined as the product of the spectral sensitivity of the imaging detector and the transmittance of the filter. A 10 useful simplified model assumes the spectral sensitivity to be a smooth single-peaked curve in visible range with nonnegative values, although real channel spectral sensitivities may be more complex. In this particular embodiment, the spectral sensitivity curves are retrieved from memory 18 from a prior measurement of an imaging device, although the spectral sensitivity curves can be 15 obtained in a variety of other manners, such as, from another memory storage device, by generating the spectral sensitivity curves hypothetically or by operator input via user input device 23.

By way of example only, the spectral sensitivity curves can be generated 20 hypothetically by SS processing system 12. More specifically, the spectral sensitivities for the simplified model can be simulated by a combination of smooth cubic spline functions. The cubic spline function for instance with peak position at $\lambda = \lambda_0$ is written as:

$$C(\lambda) = \begin{cases} \frac{w^3 + 3w^2(w - |\lambda - \lambda_0|) + 3w(w - |\lambda - \lambda_0|)^2 - 3(w - |\lambda - \lambda_0|)^3}{6w^3} & |\lambda - \lambda_0| \leq w \\ \frac{(2w - |\lambda - \lambda_0|)^3}{6w^3} & w \leq |\lambda - \lambda_0| \leq 2w \\ 0 & |\lambda - \lambda_0| \geq 2w \end{cases}$$

25

where $2w$ is the width of the cubic spline function at one-fourth peak height (the corresponding width at half peak height is approximately $\sqrt{2}w$).

If we wish to describe a more complicated potential spectral sensitivity curve, one which may be non-symmetrical about its peak wavelength, then we can consider w_1 and w_2 which represent the left half and right half widths, 5 respectively. Now our cubic spline function becomes

$$C(\lambda) = \begin{cases} \frac{w^3 + 3w^2(w - |\lambda - P_\lambda|) + 3w(w - |\lambda - P_\lambda|)^2 - 3(w - |\lambda - P_\lambda|)^3}{6w^3} & 0 \leq \lambda - P_\lambda \leq w_2 \\ \frac{w^3 + 3w^2(w - |\lambda - P_\lambda|) + 3w(w - |\lambda - P_\lambda|)^2 - 3(w - |\lambda - P_\lambda|)^3}{6w^3} & -w_1 \leq \lambda - P_\lambda \leq 0 \\ \frac{(2w - |\lambda - P_\lambda|)^3}{6w^3} & w_2 \leq \lambda - P_\lambda \leq 2w_2 \\ \frac{(2w - |\lambda - P_\lambda|)^3}{6w^3} & -2w_1 \leq \lambda - P_\lambda \leq -w_1 \\ 0 & \text{otherwise} \end{cases}$$

For convenience we introduce w which is related to w_1 and w_2 in the following ways:

10

$$w_2 - w_1 = 2\Delta w$$

so

$$w_1 = w - \Delta w, w_2 = w + \Delta w.$$

and

15

$$\Delta w = \frac{w_2 - w_1}{2}$$

Next, in step 54 the obtained spectral sensitivity curves from step 52 are 20 used by the SS processing system 12 to determine a μ -factor. In this particular embodiment, the μ -factor is calculated by summing the q -factors of the orthonormalized vectors of the obtained spectral sensitivity curves and dividing the summation by three, although other manners for determining a μ -factor can be used. Since the process of determining a μ -factor and q -factors are known, they 25 will not be described in detail here.

Next, in step 58 a color difference metric value, in this case a delta E (“E”) value, for the color imaging device is determined in SS processing system

12 from the μ -factor, although other combinations of the μ -factor and/or other quality factors could also be used to determine the color difference metric value. In this particular embodiment, a relationship between μ -factor and ΔE stored in memory 18 is used by processor 16 to determine the color difference metric value.

- 5 One example of such a derived relationship between μ -factor and ΔE is set forth below:

derived relationship between μ -factor and ΔE

μ -factor	Min Expected ΔE	Max Expected ΔE
0.9	2.2	4.8
0.91	2.0	4.7
0.92	1.9	4.4
0.93	1.8	4.0
0.94	1.8	3.8
0.95	1.6	3.5
0.96	1.5	3.2
0.97	1.3	3
0.98	1.2	2.5
0.99	1.1	2

- 10 Based on this relationship, the color difference metric value in this particular embodiment is obtained by averaging the minimum and maximum expected ΔE value expected for the determined μ -factor. For example, a μ -factor of 0.98 would result in color difference metric value of 1.85.
- 15 Next, in step 60 the color rendering capability of the color imaging device is evaluated based on the determined image quality value. In this particular embodiment, image quality value is compared against a standard to provide an evaluation, e.g. a standard might state that an image quality value of zero is ideal, an image quality value of 0 to 2.0 is acceptable, and an image quality value above 2.0 is unacceptable, although other types of evaluations could be used. By way of example only, the image quality values of two different imaging devices could also be compared against each other to identify the imaging device which would produce color images with better quality.
- 20 25 Although in this particular embodiment a color difference metric value is determined, other types of image quality values could also be determined, such as

a color quality and noise sensitivity metric value. An image quality value is a number which correlates how well an image fits associated quality criteria from the view point of a typical human observer. A color quality metric value is an image quality value based on the criteria of how well the channel sensitivities of a device correlate with the human visual system. A color difference metric value is an image quality value which correlates with the magnitude of change in color a typical human observer would detect between two images. A color quality and noise sensitivity metric value an image quality value based on color criteria and an image quality value based on quantifying how the amplification of noise in a system affects perceived quality to a human observer.

Referring to FIG. 3B, a flow chart for evaluating a color rendering capability of at least one color imaging device with multiple color channels in accordance with one embodiment of the present invention is illustrated. In step 15 62, this method starts.

Next, in step 64 spectral sensitivity curves or functions for two or more of the multiple color channels in the color imaging device are obtained. Since the process in step 64 is identical to that described earlier in step 52, it will not 20 described again here.

Next, in step 66 the obtained spectral sensitivity curves from step 52 are used by the SS processing system 12 to determine a Universal Measure of Goodness (UMG) factor. UMG takes into account the total noise of the system, 25 both shot noise which is signal dependent and dark noise which is signal independent, and an expected average color difference. Total noise is measured through the sum of the shot noise covariance and the dark current noise covariance, while the expectation of the noise is still zero. For a standard set of object spectra, τ is the information content which would be delivered by the 30 system described by the spectral sensitivity curves. Thus, τ is a function of the total noise and the average E . For the same standard set of object spectra, α is the information content which a perfectly noise-free colorimetric system would deliver. UMG is the ratio of τ to α .

Next, in step 70 a color quality and noise sensitivity metric value for the color imaging device is determined in SS processing system 12 from the UMG factor, although other combinations of the UMG factor and/or other quality factors
5 could also be used to determine the color quality and noise sensitivity metric value. In this particular embodiment, a relationship between the UMG factor and E stored in memory 18 is used by processor 16 to determine the color difference metric value. Since the process in this step is the same as described earlier in step 58 except a color quality and noise sensitivity metric value is being determined
10 here instead of a color difference metric value and a UMG factor is used here instead of a μ -factor, the process will not be described again here.

One of the advantages of this method is the use of a noise sensitivity metric because it involves a consideration of image-dependent noise. Image
15 dependent noise is noise dependent on the input signal level, rather than independent, white noise as described in greater detail in Gerald C. Holst, "CCD Arrays Cameras and Displays", SPIE Optical Engineering Press 1998 which is herein incorporated by reference. By incorporating this practical noise model into the image quality metric value, this embodiment of the present invention generates
20 an image quality metric value which is more coincident with what occurs in the real world.

Next, in step 72 the color rendering capability of the color imaging device is evaluated based on the determined color quality and noise sensitivity metric
25 value. Since the process in step 68 is identical to that described earlier in step 56, except that the evaluation is based using a color quality and noise sensitivity metric value instead of a color difference metric value, it will not be described again here.

30 Referring to FIG. 4A is a flow chart of a method for designing a spectral sensitivity curve for one or more color channels of a color imaging device in accordance with another embodiment of the present invention is illustrated. In step 74, this method starts. Next, in step 76, an image quality value is obtained.

way of example only, user input device 23 can be used to select or input the image quality value or the value could be retrieved from a memory device. Again, depending upon the embodiment, a variety of different types of image quality metric values could be used, such as a color difference metric value or a color quality and noise sensitivity metric value.

Next, in step 78 the SS processing system 12 uses the obtained image quality value to obtain or retrieve one or more tables, sets, or enumerations of combinations of spectral sensitivity curves from memory 18. The one or more
10 tables sets, or enumerations of combinations of spectral sensitivity curves can be obtained in a variety of different manners, such as based on the image quality value itself or on a portion of the image quality value, such as a μ -factor on which the image quality value is at least partially based or on other factors. Two
15 illustrative examples of such tables set forth below. In this particular embodiment, the tables are stored in memory 18, although the tables could be stored elsewhere. The tables are accessed by processor 16 to determine the spectral sensitivity curve(s) which are unknown needed or desired for the particular application.

20 Next, in step 80 the known spectral sensitivity curves are used to identify a combination or combinations of spectral sensitivity curves in the obtained table that could be used for the particular application.

Next, in step 82 one of the identified combinations of spectral sensitivity
25 curves is selected. A variety of factors could be used by SS processing system 12 to determine how this selection is made, such as which combination of spectral sensitivity curves would have the best color rendering capability or by an operator making a selection using user input device 23.

30 Next, in step 84 the missing and desired spectral sensitivity curve or curves are determined from the selected combination. The selected combination will contain the needed information and/or data on the missing and desired spectral sensitivity curve or curves.

By way of example only, one example of this method is set forth below. If, for example, one chooses to design a third channel for a three-channel system where an image quality value is selected that is based at least partly on a μ -factor
5 with a desired value of 0.98, then Table I would be selected. Next, if for this example, the spectral sensitivities of the first two channels in a three-channel system are already given where channel 1 has a peak sensitivity at 600nm, a full width half maximum of 100nm ($w_r = 50$, described above) and a skewness of 5nm
10 ($w_r=5$, described above) and channel 2 has a peak sensitivity at 540nm, a full width half maximum of 140nm ($w_G = 70$) and a skewness of 5nm ($w_G=5$), then consulting the table, one possible solution would be found on the following line:

Sensitivity						Green	Center Peaks in			
w_R	w_G	w_B	Δw_R	Δw_G	Δw_B	$P_{\lambda G}$	$P_{\lambda R}$	$P_{\lambda B}$	$HalfAxis_R$	$HalfAxis_B$
50	70	40	5	5	5	540	597	448	3	2

As shown here for the aforesaid channels 1 and 2, there is a satisfactory third
15 channel with peak wavelength sensitivity of 448nm, a full width half maximum of 80nm and a skewness of 5nm which would be determined to be the spectral sensitivity curve for this example. Although in this particular embodiment, the spectral sensitivity curve(s) is determined using tables, the selected image quality value, and the known spectral sensitivity curves, other methods for determining
20 the spectral sensitivity curve may also be used.

Referring to FIG. 4B is a flow chart of a method for designing a spectral sensitivity curve for one or more color channels of a color imaging device in accordance with another embodiment of the present invention is illustrated. In
25 step 86, this method starts. Next, in step 88, an image quality value is obtained. Since the process in step 88 is identical to that described earlier in step 76, it will not be described again here.

Next, in step 90 the SS processing system 12 uses the obtained image
30 quality value to obtain or retrieve one or more tables, sets, or enumerations of

combinations of spectral sensitivity curves from memory 18. Since the process in step 90 is identical to that described earlier in step 78, it will not be described again here.

5 Next, in step 92 one or more characteristics are used by SS processing system 12 to identify a combination or combinations of spectral sensitivity curves in the obtained table that could be used for the particular application. A variety of different characteristics, numbers of characteristics (one or more than one, and a variety of different combinations can be used as needed or desired for the
10 particular application. The characteristics can be obtained in a variety of different manners, such as from memory 18 or via operator input using user input device
23.

15 Next, in step 94 one of the identified combinations of spectral sensitivity curves is selected. A variety of factors could be used by SS processing system 12 to determine how this selection is made, such as which combination of spectral sensitivity curves would have the best color rendering capability or by an operator making a selection using user input device 23.

20 Next, in step 96 the desired spectral sensitivity curves are obtained from the selected combination. The selected combination will contain the needed information and/or data on these spectral sensitivity curves.

25 One example of this particular embodiment is discussed below. If, for example, one chooses to design three channels for a three-channel system where the image quality metric value is based on a μ -factor with a desired value of 0.98, then Table I would be selected in this example. For that table, every channel sensitivity combination described in that table is associated with a μ -factor of 0.98. One could search for a characteristic such as a green curve which is easily
30 manufactured. For example, say a channel with a peak sensitivity at 540nm, a full width half maximum of 140nm ($w_G = 70$) and a skewness of 5nm ($w_G=5$) is easily made. Surveying Table I shows a possible second curve could have a peak sensitivity at 604nm, a full width half maximum of 100nm ($w_R = 50$) and a

skewness of -5nm ($w_R = -5$). If the second curve with its negative skewness is considered difficult to manufacturer, the table can be further consulted by SS processing system 12 until a combination which meets all manufacturing criteria is met. For example, the following combination, also found in Table I, may be 5 considered a good manufacturing candidate: the same first curve along with a second curve with peak sensitivity at 597nm, a full width half maximum of 100nm ($w_R = 50$) and a skewness of 5nm ($w_R = 5$) and a third channel sensitivity with peak sensitivity at 448nm, a full width half maximum of 80nm ($w_B = 40$) and a skewness of 5nm ($w_B = 5$).

10

Sensitivity						Green	Center Peaks in		HalfAxis _R	HalfAxis _B
w_R	w_G	w_B	Δw_R	Δw_G	Δw_B	$P_{\lambda G}$	$P_{\lambda R}$	$P_{\lambda B}$		
50	70	30	-5	5	0	540	604	450	2	1
50	70	40	5	5	5	540	597	448	3	2

Accordingly, with this method once an image quality value is selected, then one or more spectral sensitivity curves can be determined.

15

In yet another embodiment, as discussed earlier the μ -factor for an image quality value can be used to select a set or table of spectral sensitivity curves. Next, to select a combination of spectral sensitivity curves an optimization approach can be used by SS processing system 12 to select one of the combinations of spectral sensitivity curves. For example, three or more spectral 20 sensitivity curves could be optimized by maximizing the image quality metric within one or more constraints. By way of example only, these constraints can be:

(1) *Non-negativity*:

The transmittance of spectral sensitivity at each wavelength is non-negative.

(2) *Smoothness*:

25

The second derivative of the physical sensitivity can be used as a measure of curvature and therefore as a measure of smoothness of the sensitivity.

$$|S(\lambda_{i-1}) - 2S(\lambda_i) + S(\lambda_{i+1})| = \Delta_i; \text{ where } 2 \leq i \leq 30$$
$$\Delta_i \leq \Delta_{\max}$$

5 (3) *Boundedness:*

In general, the transmittance at each wavelength cannot exceed one, or a constant that is less than one.

5 (4) *Single Peak:*

The transmittance of the filter has one global maximum, and without local maximum.

10 Although four constraints are discussed above, a variety of different types of constraints and combinations of them can be used depending upon the particular application and its requirements.

15 In FIG. 5 a flow chart of a method for determining the tolerances for one or more color channels in a color imaging device in accordance with another embodiment of the present invention is illustrated. In step 98, this method starts. Next, in step 100 a spectral sensitivity curve for at least one of the multiple color channels in the color imaging device is obtained in a manner as described in greater detail earlier. Meanwhile in step 102 an image quality value is obtained. Since methods and systems for obtaining spectral sensitivity curve(s) and/or image quality values are discussed earlier, they will not be described here again.

20

Next, in step 104 a first pair of upper and lower tolerances on the peak wavelength is determined for the obtained spectral sensitivity curves for one of the multiple color channels. These tolerances may be obtained by processor 16 through reference to the tables stored in memory 18, such as the tables which are set forth below as examples. The table used is selected based on the obtained image quality value as described in greater detail earlier. The tables are useful in determining desirable channel spectral sensitivities for three-channel imaging devices. These tables provide manufacturing guidance on the choice of curves. The μ -factor used in deriving the tables is a color quality metric. The tables describe tolerances on the specification of the "red" and "blue" channels in a three-channel system. The tolerances are in terms of peak wavelength error which

maintain the μ -factor at or above the desired level. The first table maintains a μ -factor of at least 0.98, the second maintains at least a μ -factor of 0.95.

- 5 Next, in step 106 a second pair of upper and lower tolerances on the full width half maximum is determined from the obtained spectral sensitivity curve for one of the multiple color channels. These tolerances may also be obtained through reference to the tables, such as the exemplary tables incorporated below in the same manner as described above in step 104.
- 10 Next, in step 108 the spectral sensitivity curve or curves are evaluated based on the determined first and second pair of tolerances. For example, the first and second pair of tolerances may provide an indication on the ease or difficulty in reproducing an imaging device with the same color rendering capability. If the tolerances are small, then it will be difficult to obtain imaging devices with the
- 15 same color rendering capability.

EXAMPLES OF TWO TABLES

20 **Table I: Peak wavelength tolerances based on single-peak symmetric or asymmetric channel sensitivities for three channel cameras with μ -factor of .98 or larger**

Sensitivity						Green	Center Peaks in			
W _R	W _G	W _B	ΔW _R	ΔW _G	ΔW _B	P _{λG}	P _{λR}	P _{λB}	HalfAxis _R	HalfAxis _B
50	50	30	-5	-5	0	540	604	450	2	1
50	50	30	-5	-5	5	540	604	446	2	2
50	50	30	-5	-5	5	550	602	446	1	1
50	50	30	-5	0	-5	540	604	454	1	1
50	50	30	-5	0	0	540	604	450	2	2
50	50	30	-5	0	5	540	603	446	2	2
50	50	30	-5	5	0	540	603	450	2	1
50	50	30	-5	5	5	540	603	446	2	2
50	50	30	0	-5	0	540	601	450	2	1
50	50	30	0	-5	5	540	600	446	2	2
50	50	30	0	-5	5	550	598	446	2	1
50	50	30	0	0	-5	540	600	454	2	1
50	50	30	0	0	0	540	600	450	2	2
50	50	30	0	0	5	540	600	446	2	2
50	50	30	0	5	0	540	599	450	2	1
50	50	30	0	5	5	540	600	446	2	2
50	50	30	5	-5	0	540	598	450	1	1
50	50	30	5	-5	5	540	597	446	2	1
50	50	30	5	-5	5	550	595	446	1	1
50	50	30	5	0	-5	540	597	454	1	1
50	50	30	5	0	0	540	597	450	2	2

50	50	30	5	0	5	540	597	446	2	2
50	50	30	5	5	0	540	597	450	2	1
50	50	30	5	5	5	540	596	446	2	2
50	50	40	-5	-5	-5	540	604	454	3	2
50	50	40	-5	-5	-5	550	601	454	2	2
50	50	40	-5	-5	0	540	603	451	3	2
50	50	40	-5	-5	0	550	601	451	3	2
50	50	40	-5	-5	5	540	604	447	3	2
50	50	40	-5	-5	5	550	601	448	3	2
50	50	40	-5	0	-5	540	603	454	3	2
50	50	40	-5	0	0	540	604	451	3	2
50	50	40	-5	0	0	550	600	451	2	1
50	50	40	-5	0	5	540	603	447	3	2
50	50	40	-5	0	5	550	600	448	2	2
50	50	40	-5	5	-5	530	604	454	2	1
50	50	40	-5	5	-5	540	603	454	3	2
50	50	40	-5	5	0	530	604	451	2	2
50	50	40	-5	5	0	540	603	451	3	2
50	50	40	-5	5	5	530	605	447	2	2
50	50	40	-5	5	5	540	602	447	3	2
50	50	40	0	-5	-5	540	600	454	3	2
50	50	40	0	-5	-5	550	598	454	3	2
50	50	40	0	-5	0	540	601	451	3	2
50	50	40	0	-5	0	550	597	450	3	2
50	50	40	0	-5	5	540	600	447	3	2
50	50	40	0	-5	5	550	598	448	3	2
50	50	40	0	0	-5	540	600	454	3	2
50	50	40	0	0	0	540	600	451	3	2
50	50	40	0	0	0	550	597	451	2	1
50	50	40	0	0	5	540	600	447	3	2
50	50	40	0	0	5	550	597	448	2	2
50	50	40	0	5	-5	530	601	454	2	1
50	50	40	0	5	-5	540	599	454	3	2
50	50	40	0	5	0	530	602	451	2	2
50	50	40	0	5	0	540	600	451	3	2
50	50	40	0	5	5	530	601	447	2	2
50	50	40	0	5	5	540	600	447	3	2
50	50	40	5	-5	-5	540	598	454	2	2
50	50	40	.5	-5	-5	550	595	454	2	2
50	50	40	.5	-5	0	540	597	451	3	2
50	50	40	.5	-5	0	550	595	451	3	2
50	50	40	.5	-5	5	540	597	447	3	2
50	50	40	.5	-5	5	550	597	447	3	2
50	50	40	.5	-5	5	540	594	448	3	2
50	50	40	.5	0	-5	540	597	454	3	2
50	50	40	.5	0	0	540	597	451	3	2
50	50	40	.5	0	0	550	593	451	2	1
50	50	40	.5	0	5	540	597	447	3	2
50	50	40	.5	0	5	550	594	448	2	2
50	50	40	.5	5	-5	530	598	454	1	1
50	50	40	.5	5	-5	540	596	454	3	2
50	50	40	.5	5	0	530	598	451	2	2
50	50	40	.5	5	0	540	596	451	3	2
50	50	40	.5	5	5	530	598	447	2	2
50	50	40	.5	5	5	540	596	447	3	2
50	50	50	-5	0	5	540	604	448	1	1
50	50	50	0	0	5	540	600	449	1	1

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50	60	30	-5	-5	-5	550	601	454	2	2
50	60	30	-5	-5	0	540	603	450	2	1
50	60	30	-5	-5	0	550	601	450	2	2
50	60	30	-5	-5	5	540	604	446	2	2
50	60	30	-5	-5	5	550	601	446	3	2
50	60	30	-5	-5	5	560	597	446	1	1
50	60	30	-5	0	-5	540	603	454	2	1
50	60	30	-5	0	-5	550	601	454	2	1
50	60	30	-5	0	0	540	603	450	2	2
50	60	30	-5	0	0	550	601	450	2	2
50	60	30	-5	0	5	540	603	446	2	2
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50	60	30	-5	5	-5	540	603	454	2	2
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50	60	30	-5	5	0	550	601	450	2	1
50	60	30	-5	5	5	540	602	446	2	2
50	60	30	-5	5	5	550	600	446	2	2
50	60	30	0	-5	-5	550	598	454	2	2
50	60	30	0	-5	0	540	601	450	2	1
50	60	30	0	-5	0	550	598	450	3	2
50	60	30	0	-5	0	560	594	450	1	1
50	60	30	0	-5	5	540	600	446	2	2
50	60	30	0	-5	5	550	598	446	3	2
50	60	30	0	-5	5	560	594	446	2	1
50	60	30	0	0	-5	540	600	454	2	1
50	60	30	0	0	-5	550	597	454	2	2
50	60	30	0	0	0	540	600	450	2	2
50	60	30	0	0	0	550	597	450	2	2
50	60	30	0	0	5	540	600	446	2	2
50	60	30	0	0	5	550	598	446	2	2
50	60	30	0	5	-5	540	600	454	2	2
50	60	30	0	5	-5	550	597	454	1	0
50	60	30	0	5	0	540	600	450	2	2
50	60	30	0	5	0	550	597	450	2	2
50	60	30	0	5	5	540	600	446	3	2
50	60	30	0	5	5	550	597	446	2	2
50	60	30	5	-5	-5	550	595	454	2	2
50	60	30	5	-5	0	540	597	450	2	1
50	60	30	5	-5	0	550	595	450	2	2
50	60	30	5	-5	0	560	591	450	2	1
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50	60	30	5	-5	5	550	595	446	3	2
50	60	30	5	-5	5	560	591	446	2	1
50	60	30	5	0	-5	540	597	454	2	1
50	60	30	5	0	-5	550	595	454	2	1
50	60	30	5	0	0	540	597	450	2	2
50	60	30	5	0	0	550	595	450	2	2
50	60	30	5	0	5	540	597	446	2	2
50	60	30	5	0	5	550	594	446	3	2
50	60	30	5	5	-5	540	597	454	2	2
50	60	30	5	5	0	540	597	450	2	2
50	60	30	5	5	0	550	594	450	2	1
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50	60	30	5	5	5	550	594	446	2	2
50	60	40	-5	-5	-5	540	604	454	3	2
50	60	40	-5	-5	-5	550	602	454	3	2

0 0 0 1 1 0 0 0 0 0 0

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50	60	40	-5	-5	0	550	601	451	3	3
50	60	40	-5	-5	0	560	598	451	3	2
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50	60	40	-5	-5	5	560	597	448	3	2
50	60	40	-5	-5	5	570	594	447	1	1
50	60	40	-5	0	-5	540	603	454	3	2
50	60	40	-5	0	-5	550	601	454	3	2
50	60	40	-5	0	-5	560	597	455	2	1
50	60	40	-5	0	0	540	603	451	3	3
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50	60	40	-5	0	0	560	597	451	2	2
50	60	40	-5	0	5	530	605	448	1	1
50	60	40	-5	0	5	540	603	448	3	3
50	60	40	-5	0	5	550	601	448	3	3
50	60	40	-5	0	5	560	597	447	2	2
50	60	40	-5	5	-5	530	605	455	1	1
50	60	40	-5	5	-5	540	603	454	3	2
50	60	40	-5	5	-5	550	600	454	3	2
50	60	40	-5	5	0	530	604	451	2	2
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50	60	40	-5	5	5	540	603	448	3	3
50	60	40	-5	5	5	550	600	447	3	2
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50	60	40	0	-5	-5	550	598	454	3	2
50	60	40	0	-5	-5	560	594	454	3	2
50	60	40	0	-5	-5	570	591	454	1	2
50	60	40	0	-5	0	540	600	451	3	2
50	60	40	0	-5	0	550	598	451	3	3
50	60	40	0	-5	0	560	595	451	3	2
50	60	40	0	-5	0	570	590	450	2	2
50	60	40	0	-5	5	540	600	448	3	2
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50	60	40	0	-5	5	560	594	447	3	2
50	60	40	0	-5	5	570	591	447	2	2
50	60	40	0	0	-5	540	600	454	3	2
50	60	40	0	0	-5	550	598	454	3	2
50	60	40	0	0	-5	560	594	454	2	2
50	60	40	0	0	0	540	600	451	3	3
50	60	40	0	0	0	550	597	451	3	3
50	60	40	0	0	0	560	594	451	2	2
50	60	40	0	0	0	530	601	448	1	1
50	60	40	0	0	5	540	600	448	3	3
50	60	40	0	0	5	550	597	448	3	3
50	60	40	0	0	5	560	594	448	2	2
50	60	40	0	5	-5	530	601	455	2	1
50	60	40	0	5	-5	540	600	454	3	2
50	60	40	0	5	-5	550	597	454	3	2
50	60	40	0	5	0	530	601	451	2	2
50	60	40	0	5	0	540	600	451	3	3
50	60	40	0	5	0	550	597	451	3	2
50	60	40	0	5	5	530	601	448	2	2

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50	60	40	5	0	-5	540	597	454	3	2
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50	60	40	5	0	-5	560	591	454	2	2
50	60	40	5	0	0	540	597	451	3	2
50	60	40	5	0	0	550	594	451	3	2
50	60	40	5	0	0	560	591	451	2	2
50	60	40	5	0	5	530	598	448	1	1
50	60	40	5	0	5	540	597	448	3	3
50	60	40	5	0	5	550	595	448	3	3
50	60	40	5	0	5	560	591	447	2	2
50	60	40	5	5	-5	530	598	454	1	1
50	60	40	5	5	-5	540	596	454	3	2
50	60	40	5	5	-5	550	594	454	3	2
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50	60	40	5	5	5	550	594	447	3	2
50	60	50	-5	-5	-5	550	601	454	1	1
50	60	50	-5	-5	0	550	601	452	2	2
50	60	50	-5	-5	5	540	604	450	1	2
50	60	50	-5	-5	5	550	601	449	2	2
50	60	50	-5	0	0	540	603	452	2	2
50	60	50	-5	0	0	550	601	452	1	1
50	60	50	-5	0	5	540	603	449	2	2
50	60	50	-5	0	5	550	600	449	2	2
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50	60	50	-5	5	-5	540	603	452	2	2
50	60	50	-5	5	5	540	603	449	2	2
50	60	50	0	-5	-5	550	598	454	1	1
50	60	50	0	-5	0	550	598	452	2	2
50	60	50	0	-5	5	540	600	450	2	2
50	60	50	0	-5	5	550	598	449	2	2
50	60	50	0	0	-5	540	600	454	1	1
50	60	50	0	0	0	540	600	452	2	2
50	60	50	0	0	0	550	597	451	2	1
50	60	50	0	0	5	540	600	449	2	2
50	60	50	0	0	5	550	597	448	2	2
50	60	50	0	5	-5	540	600	454	1	1
50	60	50	0	5	0	540	600	452	2	2
50	60	50	0	5	5	540	600	449	2	2

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50	60	50	5	-5	0	550	595	452	2	2
50	60	50	5	-5	5	540	597	449	1	1
50	60	50	5	-5	5	550	595	449	2	2
50	60	50	5	0	0	540	597	452	2	1
50	60	50	5	0	0	550	594	451	1	1
50	60	50	5	0	5	540	597	449	2	2
50	60	50	5	0	5	550	594	449	2	1
50	60	50	5	5	-5	540	597	454	1	1
50	60	50	5	5	0	540	597	452	2	2
50	60	50	5	5	5	540	597	449	2	2
50	70	30	-5	-5	-5	550	602	454	1	1
50	70	30	-5	-5	-5	560	601	454	2	1
50	70	30	-5	-5	-5	570	600	454	1	1
50	70	30	-5	-5	0	550	602	450	2	2
50	70	30	-5	-5	0	560	601	450	2	2
50	70	30	-5	-5	0	570	600	450	2	2
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50	70	30	-5	-5	5	560	601	446	2	2
50	70	30	-5	-5	5	570	600	446	2	2
50	70	30	-5	0	-5	550	603	454	2	1
50	70	30	-5	0	-5	560	601	454	2	1
50	70	30	-5	0	0	550	602	450	2	2
50	70	30	-5	0	0	560	601	450	2	2
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50	70	30	-5	0	5	560	601	446	2	2
50	70	30	-5	0	5	570	600	446	0	0
50	70	30	-5	5	-5	550	603	454	2	2
50	70	30	-5	5	0	540	604	450	2	1
50	70	30	-5	5	0	550	603	450	2	2
50	70	30	-5	5	0	560	602	450	2	1
50	70	30	-5	5	5	540	604	446	2	2
50	70	30	-5	5	5	550	603	446	2	2
50	70	30	-5	5	5	560	601	446	2	2
50	70	30	0	-5	-5	550	599	454	2	1
50	70	30	0	-5	-5	560	597	454	2	2
50	70	30	0	-5	-5	570	596	454	2	1
50	70	30	0	-5	0	550	599	450	2	2
50	70	30	0	-5	0	560	597	450	2	2
50	70	30	0	-5	0	570	597	450	2	2
50	70	30	0	-5	0	580	598	450	1	1
50	70	30	0	-5	5	550	599	446	2	2
50	70	30	0	-5	5	560	597	446	2	2
50	70	30	0	-5	5	570	597	446	2	2
50	70	30	0	-5	5	580	598	447	1	1
50	70	30	0	0	-5	550	599	454	2	2
50	70	30	0	0	-5	560	598	454	2	2
50	70	30	0	0	0	560	598	454	2	2
50	70	30	0	0	0	550	599	450	2	2
50	70	30	0	0	0	560	598	450	2	2
50	70	30	0	0	0	570	597	450	1	1
50	70	30	0	0	0	570	597	446	2	2
50	70	30	0	0	5	550	599	446	2	2
50	70	30	0	0	5	560	598	446	2	2
50	70	30	0	0	5	570	598	446	2	1
50	70	30	0	5	-5	550	599	454	2	2

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50	70	30	0	5	-5	560	599	454	1	1
50	70	30	0	5	0	540	601	450	2	1
50	70	30	0	5	0	550	599	450	2	2
50	70	30	0	5	0	560	599	450	2	2
50	70	30	0	5	5	540	601	446	2	2
50	70	30	0	5	5	550	599	446	2	2
50	70	30	0	5	5	560	598	446	2	2
50	70	30	5	-5	-5	550	596	454	1	1
50	70	30	5	-5	-5	560	595	454	2	2
50	70	30	5	-5	-5	570	594	454	1	1
50	70	30	5	-5	0	550	596	450	2	2
50	70	30	5	-5	0	560	594	450	2	2
50	70	30	5	-5	0	570	593	450	2	2
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70	60	40	5	-5	-5	540	586	454	2	2
70	60	40	5	-5	-5	540	542	455	1	1
70	60	40	5	-5	-5	550	571	454	4	2
70	60	40	5	-5	0	540	586	451	3	2
70	60	40	5	-5	0	540	543	451	1	2

70	60	40	5	-5	0	550	572	451	4	3
70	60	40	5	-5	5	540	585	448	3	2
70	60	40	5	-5	5	540	544	448	1	2
70	60	40	5	-5	5	550	574	448	5	3
70	60	40	5	0	-5	540	547	454	2	2
70	60	40	5	0	-5	540	584	455	3	2
70	60	40	5	0	-5	550	572	454	4	2
70	60	40	5	0	0	540	547	451	2	2
70	60	40	5	0	0	540	583	451	4	2
70	60	40	5	0	0	550	573	451	4	2
70	60	40	5	0	5	540	548	447	2	2
70	60	40	5	0	5	540	582	448	4	2
70	60	40	5	0	5	550	574	448	4	3
70	60	40	5	5	-5	540	580	454	4	2
70	60	40	5	5	-5	540	553	454	2	2
70	60	40	5	5	-5	550	574	454	3	2
70	60	40	5	5	0	540	572	451	4	2
70	60	40	5	5	0	550	575	451	4	2
70	60	40	5	5	5	540	572	448	5	2
70	60	40	5	5	5	550	575	447	4	2
70	60	40	5	-5	-5	550	579	454	3	2
70	60	50	-5	-5	0	550	578	452	4	2
70	60	50	-5	-5	5	540	591	450	2	1
70	60	50	-5	-5	5	550	578	449	4	2
70	60	50	-5	0	-5	550	579	454	3	2
70	60	50	-5	0	0	540	589	452	2	1
70	60	50	-5	0	0	550	580	451	3	2
70	60	50	-5	0	5	540	589	449	3	2
70	60	50	-5	0	5	550	580	449	3	2
70	60	50	-5	5	-5	540	588	455	1	1
70	60	50	-5	5	0	540	588	452	2	2
70	60	50	-5	5	5	540	587	449	3	2
70	60	50	0	-5	-5	550	571	454	4	2
70	60	50	0	-5	0	550	572	452	4	2
70	60	50	0	-5	5	550	572	449	4	2
70	60	50	0	0	-5	550	572	454	3	2
70	60	50	0	0	0	550	574	451	3	2
70	60	50	0	0	5	540	586	449	2	1
70	60	50	0	0	5	550	573	449	3	2
70	60	50	0	5	5	540	584	449	2	1
70	60	50	5	-5	-5	550	564	455	3	2
70	60	50	5	-5	0	550	566	452	4	2
70	60	50	5	-5	5	550	568	449	4	2
70	60	50	5	0	-5	550	565	454	2	1
70	60	50	5	0	0	550	567	451	3	2
70	60	50	5	0	5	550	568	449	3	2
70	70	30	-5	-5	0	560	580	450	2	1
70	70	30	-5	-5	0	570	574	450	1	1
70	70	30	-5	-5	5	560	580	446	3	2
70	70	30	-5	-5	5	570	575	446	2	1
70	70	30	-5	0	-5	560	580	454	3	2
70	70	30	-5	0	0	550	587	450	2	1
70	70	30	-5	0	0	560	580	450	3	2
70	70	30	-5	0	0	570	581	450	1	1
70	70	30	-5	0	5	550	587	446	2	2
70	70	30	-5	0	5	560	581	446	3	2

70	70	30	-5	0	5	570	581	446	2	2
70	70	30	-5	5	-5	550	586	454	2	1
70	70	30	-5	5	-5	560	583	454	2	2
70	70	30	-5	5	0	550	587	450	3	2
70	70	30	-5	5	0	560	584	450	2	2
70	70	30	-5	5	5	550	586	446	3	2
70	70	30	-5	5	5	560	584	446	3	2
70	70	30	0	0	0	560	578	450	1	1
70	70	30	0	0	0	570	572	450	1	1
70	70	30	0	0	5	560	578	446	2	1
70	70	30	0	0	5	570	573	446	1	1
70	70	30	0	5	-5	560	577	454	2	2
70	70	30	0	5	0	550	584	450	2	1
70	70	30	0	5	0	560	578	450	3	2
70	70	30	0	5	5	550	584	446	2	1
70	70	30	0	5	5	560	578	446	3	2
70	70	40	-5	-5	-5	550	587	455	3	2
70	70	40	-5	-5	-5	560	579	454	3	2
70	70	40	-5	-5	-5	570	577	454	2	2
70	70	40	-5	-5	0	540	593	452	1	1
70	70	40	-5	-5	0	550	587	452	3	2
70	70	40	-5	-5	0	560	579	451	4	2
70	70	40	-5	-5	0	570	578	451	2	2
70	70	40	-5	-5	5	540	593	448	2	1
70	70	40	-5	-5	5	550	586	448	3	2
70	70	40	-5	-5	5	560	579	448	4	2
70	70	40	-5	-5	5	570	577	448	2	2
70	70	40	-5	0	-5	550	586	454	3	2
70	70	40	-5	0	-5	560	581	454	3	2
70	70	40	-5	0	-5	570	582	454	2	2
70	70	40	-5	0	0	540	592	452	2	2
70	70	40	-5	0	0	550	587	451	3	2
70	70	40	-5	0	0	560	582	451	3	2
70	70	40	-5	0	0	570	582	451	2	2
70	70	40	-5	0	5	540	592	448	3	2
70	70	40	-5	0	5	550	587	448	4	2
70	70	40	-5	0	5	560	582	448	4	3
70	70	40	-5	0	5	570	582	447	2	2

70	70	40	-5	5	-5	540	592	455	2	1
70	70	40	-5	5	-5	550	587	454	3	2
70	70	40	-5	5	-5	560	584	454	3	2
70	70	40	-5	5	0	540	592	451	3	2
70	70	40	-5	5	0	550	587	451	3	2
70	70	40	-5	5	0	560	584	451	3	3
70	70	40	-5	5	5	540	592	448	3	2
70	70	40	-5	5	5	550	587	448	4	3
70	70	40	-5	5	5	560	585	448	3	3
70	70	40	0	-5	-5	550	586	455	2	1
70	70	40	0	-5	-5	560	580	455	2	1
70	70	40	0	-5	0	550	586	451	3	2
70	70	40	0	-5	0	560	580	451	3	2
70	70	40	0	-5	5	550	586	448	3	2
70	70	40	0	-5	5	560	581	448	3	2
70	70	40	0	0	-5	550	585	455	3	2
70	70	40	0	0	-5	560	578	454	3	2
70	70	40	0	0	-5	570	575	454	2	2
70	70	40	0	0	0	550	585	451	3	2
70	70	40	0	0	0	560	576	451	3	2
70	70	40	0	0	0	570	575	451	2	2
70	70	40	0	0	5	540	590	449	2	1
70	70	40	0	0	5	550	585	448	3	2
70	70	40	0	0	5	560	577	448	4	2
70	70	40	0	0	5	570	577	448	2	2
70	70	40	0	5	-5	550	585	454	3	2
70	70	40	0	5	-5	560	579	454	3	2
70	70	40	0	5	-5	570	580	455	1	1
70	70	40	0	5	0	540	590	451	1	1
70	70	40	0	5	0	550	584	451	3	2
70	70	40	0	5	0	560	580	451	3	2
70	70	40	0	5	0	570	581	451	1	2
70	70	40	0	5	5	540	590	448	2	2
70	70	40	0	5	5	550	584	448	3	2
70	70	40	0	5	5	560	580	448	3	2
70	70	40	0	5	5	570	580	447	2	2
70	70	40	5	-5	0	550	585	452	1	1
70	70	40	5	-5	5	550	585	448	2	2
70	70	40	5	0	0	550	584	451	2	1
70	70	40	5	0	0	560	580	452	0	0
70	70	40	5	0	5	550	584	448	3	2
70	70	40	5	0	5	560	579	448	2	2
70	70	40	5	5	-5	550	583	455	2	1
70	70	40	5	5	-5	560	575	454	3	2
70	70	40	5	5	-5	570	573	454	1	1
70	70	40	5	5	0	550	583	451	3	2
70	70	40	5	5	0	560	575	451	3	2
70	70	40	5	5	0	570	574	451	1	2
70	70	40	5	5	0	570	574	451	1	2
70	70	40	5	5	5	550	583	447	3	2
70	70	40	5	5	5	560	575	448	3	2
70	70	40	5	5	5	570	574	447	1	2
70	70	50	-5	-5	5	560	578	450	2	2
70	70	50	-5	-5	5	570	573	449	1	1
70	70	50	-5	0	-5	560	580	454	2	2

70	70	50	-5	0	0	560	579	452	2	2
70	70	50	-5	0	5	550	586	450	2	2
70	70	50	-5	0	5	560	580	449	3	2
70	70	50	-5	5	-5	550	586	454	1	1
70	70	50	-5	5	-5	560	583	454	2	2
70	70	50	-5	5	0	550	586	452	2	2
70	70	50	-5	5	0	560	583	451	2	2
70	70	50	-5	5	5	550	586	449	2	2
70	70	50	-5	5	5	560	583	449	2	2
70	70	50	0	5	-5	560	576	454	1	1
70	70	50	0	5	0	560	577	452	2	2
70	70	50	0	5	5	560	577	449	2	2

Table II: Peak wavelength tolerances based on single-peak symmetric or asymmetric channel sensitivities for three channel cameras with μ -factor of .95 or larger

5

Sensitivity Widths			Sensitivity Skews			Green Sensitivity Peak	Center Peaks in Red/Blue Peak Plane		Ellipse Axes in Red/Blue Peak Plane	
W_R	W_G	W_B	ΔW_R	ΔW_G	ΔW_B		$P_{\lambda R}$	$P_{\lambda B}$	$HalfAxis_R$	$HalfAxis_B$
50	50	30	-5	-5	-5	530	604	454	3	2
50	50	30	-5	-5	-5	540	604	454	4	3
50	50	30	-5	-5	-5	550	601	454	4	3
50	50	30	-5	-5	-5	560	595	454	3	2
50	50	30	-5	-5	0	530	604	450	3	2
50	50	30	-5	-5	0	540	603	450	4	3
50	50	30	-5	-5	0	550	600	450	4	3
50	50	30	-5	-5	0	560	595	450	3	2
50	50	30	-5	-5	5	530	604	446	3	2
50	50	30	-5	-5	5	540	603	446	4	3
50	50	30	-5	-5	5	550	600	446	4	3
50	50	30	-5	-5	5	560	595	446	3	2
50	50	30	-5	0	-5	530	604	454	3	3
50	50	30	-5	0	-5	540	603	454	4	3
50	50	30	-5	0	-5	550	600	454	4	3
50	50	30	-5	0	0	530	605	450	3	3
50	50	30	-5	0	0	540	603	450	4	3
50	50	30	-5	0	0	550	600	450	4	3
50	50	30	-5	0	5	530	604	446	3	3
50	50	30	-5	0	5	540	602	446	4	3
50	50	30	-5	0	5	550	600	446	4	3
50	50	30	-5	0	5	560	595	446	1	1
50	50	30	-5	5	-5	530	604	454	4	3
50	50	30	-5	5	-5	540	602	454	4	3
50	50	30	-5	5	-5	550	600	454	3	2
50	50	30	-5	5	-5	550	600	454	3	2
50	50	30	-5	5	0	530	604	450	4	3
50	50	30	-5	5	0	540	603	450	4	3
50	50	30	-5	5	0	550	599	450	3	2
50	50	30	-5	5	5	530	604	446	4	3
50	50	30	-5	5	5	540	602	446	4	3
50	50	30	-5	5	5	550	599	446	3	2
50	50	30	0	-5	-5	530	601	454	3	2

50	50	30	0	-5	-5	540	600	454	4	3
50	50	30	0	-5	-5	550	597	454	4	3
50	50	30	0	-5	-5	560	590	454	3	2
50	50	30	0	-5	-5	570	575	454	2	2
50	50	30	0	-5	0	530	601	450	3	2
50	50	30	0	-5	0	540	600	450	4	3
50	50	30	0	-5	0	550	597	450	4	3
50	50	30	0	-5	0	560	590	450	4	2
50	50	30	0	-5	0	570	575	450	2	2
50	50	30	0	-5	5	530	601	446	3	2
50	50	30	0	-5	5	540	600	446	4	3
50	50	30	0	-5	5	550	597	446	4	3
50	50	30	0	-5	5	560	590	446	4	2
50	50	30	0	-5	5	570	576	446	2	2
50	50	30	0	0	-5	530	601	454	3	3
50	50	30	0	0	-5	540	599	454	4	3
50	50	30	0	0	-5	550	596	454	4	3
50	50	30	0	0	-5	560	589	454	1	1
50	50	30	0	0	0	530	601	450	3	3
50	50	30	0	0	0	540	600	450	4	3
50	50	30	0	0	0	550	596	450	4	3
50	50	30	0	0	0	560	590	450	2	2
50	50	30	0	0	5	530	601	446	3	3
50	50	30	0	0	5	540	600	446	4	3
50	50	30	0	0	5	550	596	446	4	3
50	50	30	0	0	5	560	589	446	3	2
50	50	30	0	5	-5	530	601	454	4	3
50	50	30	0	5	-5	540	599	454	4	3
50	50	30	0	5	-5	550	595	454	3	2
50	50	30	0	5	0	530	601	450	4	3
50	50	30	0	5	0	540	599	450	4	3
50	50	30	0	5	0	550	596	450	4	2
50	50	30	0	5	5	530	601	446	4	3
50	50	30	0	5	5	540	599	446	4	3
50	50	30	0	5	5	550	595	446	4	2
50	50	30	5	-5	-5	530	598	454	3	2
50	50	30	5	-5	-5	540	596	454	4	3
50	50	30	5	-5	-5	550	594	454	4	3
50	50	30	5	-5	-5	560	585	454	4	2
50	50	30	5	-5	-5	570	576	454	2	2
50	50	30	5	-5	0	530	597	450	3	2
50	50	30	5	-5	0	540	597	450	4	3
50	50	30	5	-5	0	550	593	450	4	3
50	50	30	5	-5	0	560	585	450	4	2
50	50	30	5	-5	0	570	576	450	2	2
50	50	30	5	-5	5	530	598	446	3	2
50	50	30	5	-5	5	540	597	446	4	3
50	50	30	5	-5	5	550	593	446	4	3
50	50	30	5	-5	5	560	584	446	4	2
50	50	30	5	-5	5	570	577	446	2	2
50	50	30	5	0	-5	530	598	454	3	3
50	50	30	5	0	-5	540	597	454	4	3
50	50	30	5	0	-5	550	593	454	4	3
50	50	30	5	0	-5	560	583	454	3	2

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50	50	30	5	0	-5	570	572	454	1	1
50	50	30	5	0	0	530	597	450	3	3
50	50	30	5	0	0	540	596	450	4	3
50	50	30	5	0	0	550	592	450	4	3
50	50	30	5	0	0	560	583	450	3	2
50	50	30	5	0	0	570	573	450	1	2
50	50	30	5	0	5	530	597	446	3	3
50	50	30	5	0	5	540	596	446	4	3
50	50	30	5	0	5	550	592	446	4	3
50	50	30	5	0	5	560	583	446	3	2
50	50	30	5	0	5	570	574	446	1	1
50	50	30	5	5	-5	530	598	454	3	3
50	50	30	5	5	-5	540	595	454	4	3
50	50	30	5	5	-5	550	592	454	3	2
50	50	30	5	5	0	530	597	450	4	3
50	50	30	5	5	0	540	596	450	4	3
50	50	30	5	5	0	550	592	450	4	2
50	50	30	5	5	5	530	597	446	4	3
50	50	30	5	5	5	540	596	446	4	3
50	50	30	5	5	5	550	592	446	4	2
50	50	40	-5	-5	-5	530	604	455	3	3
50	50	40	-5	-5	-5	540	603	454	4	3
50	50	40	-5	-5	-5	550	601	454	4	3
50	50	40	-5	-5	-5	560	595	454	4	3
50	50	40	-5	-5	0	530	604	451	3	3
50	50	40	-5	-5	0	540	603	451	4	3
50	50	40	-5	-5	0	550	600	451	4	3
50	50	40	-5	-5	0	560	595	451	4	3
50	50	40	-5	-5	5	530	604	448	3	3
50	50	40	-5	-5	5	540	603	447	4	3
50	50	40	-5	-5	5	550	600	448	4	3
50	50	40	-5	-5	5	560	595	447	4	3
50	50	40	-5	0	-5	530	604	454	4	3
50	50	40	-5	0	-5	540	603	454	4	3
50	50	40	-5	0	-5	550	600	454	4	3
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50	50	40	-5	0	0	540	603	451	4	3
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50	50	40	-5	5	-5	540	602	447	4	3
50	50	40	-5	0	5	550	599	448	4	3
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50	50	40	0	-5	-5	550	597	454	4	3
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50	50	40	0	-5	0	550	597	451	4	3
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50	50	40	0	-5	5	540	599	447	4	3
50	50	40	0	-5	5	550	597	447	4	3
50	50	40	0	-5	5	560	589	447	4	3
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50	50	40	0	0	-5	530	601	454	4	3
50	50	40	0	0	-5	540	599	454	4	3
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70	70	50	-5	5	0	570	588	451	2	3
70	70	50	-5	5	5	520	596	454	0	0
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70	70	50	-5	5	5	570	588	448	2	3
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70	70	50	0	-5	-5	540	588	456	4	3
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70	70	50	0	-5	5	570	582	449	3	3
70	70	50	0	0	-5	530	593	457	3	2
70	70	50	0	0	-5	540	589	456	4	3
70	70	50	0	0	-5	550	583	455	5	3
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70	70	50	0	0	0	530	592	455	3	3
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70	70	50	0	0	5	530	592	452	4	3
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70	70	50	0	5	-5	570	583	454	3	3
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70	70	50	0	5	5	570	583	448	3	3
70	70	50	5	-5	-5	530	591	458	3	2
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70	70	50	5	-5	0	530	590	455	3	2
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70	70	50	5	-5	5	570	583	449	2	2
70	70	50	5	0	-5	530	591	457	3	2
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70	70	50	5	0	-5	560	580	455	4	3
70	70	50	5	0	-5	570	581	454	2	2
70	70	50	5	0	0	530	590	454	3	2
70	70	50	5	0	0	540	587	453	4	3

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70	70	50	5	0	0	550	581	452	4	3
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70	70	50	5	0	0	570	581	451	2	2
70	70	50	5	0	5	530	590	452	3	3
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70	70	50	5	5	-5	530	592	457	3	2
70	70	50	5	5	-5	540	588	455	4	3
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70	70	50	5	5	-5	570	578	454	2	3
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70	70	50	5	5	5	560	578	449	4	3
70	70	50	5	5	5	570	579	448	3	3

Having thus described the basic concept of the invention, it will be rather apparent to those skilled in the art that the foregoing detailed disclosure is intended to be presented by way of example only, and is not limiting. Various alterations, improvements, and modifications will occur and are intended to those skilled in the art, though not expressly stated herein. These alterations, improvements, and modifications are intended to be suggested hereby, and are within the spirit and scope of the invention. Accordingly, the invention is limited only by the following claims and equivalents thereto.